



REPLACEMENT CLAIMS

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30. A system in combination with a press machine and a press machine sensor assembly, said system comprising:

a press machine vibration monitoring apparatus, said press vibration monitoring apparatus being operatively coupled to said 5 press machine sensor assembly, said press machine vibration monitoring apparatus comprising:

a processor to process sensor signals generated by said press machine sensor assembly; and

10 a controller being operatively coupled to said processor, said controller being configured to selectively control said press machine.

33. The system as recited in Claim 30, wherein said press machine sensor assembly includes at least one accelerometer.

35. The system as recited in Claim 30, wherein said press machine vibration monitoring apparatus defining a built-in element of said press machine.

36. An apparatus in combination with a press machine and a press machine sensor assembly, said apparatus comprising:

a press machine vibration measurement device operatively coupled to said press machine sensor assembly; and

5 a press machine controller operatively coupled to said press machine vibration measurement device.

37. The apparatus as recited in Claim 36, wherein said press machine vibration measurement device further comprises a press acceleration determination unit, a press velocity determination unit, and/or a press displacement determination unit.